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[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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PATENTS AND DESIGNS
Calcutta, the 9th June 1984

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APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700 017

The dates shown in crecent brakets are the dates claimed
under Section 135, of the Act.

3rd May 1984

- 296|Cal|84. Kraftwerk Union Aktiengesellschaft, Power station including an integrated coal gasification plant.
- 297|Cal|84. Nauchno-Issledovatel'sky Institut Khimikarov Dlya Polimernykh Materialov, Method for preparing phthalamide.
- 298|Cal|84. Rune Lohman, Brake for bicycles.
- 299|Cal|84. Wallace Edwards, Improved colour reproduction process. (23rd December 1983).

4th May 1984

- 300|Cal|84. Spirair Corporation, Device for collecting emissions from kerosene heaters.

5th May 1984

- 301|Cal|84. Bimal Narayan Bose, Economic production of coins.
- 302|Cal|84. Alberto A Figueroa, Multi-purpose stove.
- 303|Cal|84. Ram Kishandas Damani, Method of forming internal grooves in moulded or cast articles.

7th May 1984

- 304|Cal|84. SKF Kugellagerfabriken GMBH, Mounting device for the bearing box of a spinning or twisting spindle bearing in the spindle rail of a machine.
- 305|Cal|84. Hoechst Aktiengesellschaft, Single-vessel process for preparing ring-substituted N-Alkylanilines.
- 306|Cal|84. Fiziko-Mekhanichesky Institut Imeni G. V. Karpenko Akademii Nauk Ukrainskoi SSR & Institut Metallurgii Imeni A. A. Baikova Akademii Nauk. Process for chemical and thermal treatment of steel workpieces.

8th May 1984

- 307|Cal|84. Mobil Oil Corporation, Process for the preparation of coprecipitated catalyst used in producing dimethylether.
- [Divisional date 6th May 1981].

APPLICATIONS FOR PATENTS FILED AT THE PATENT
OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

23rd April, 1984

- 285|Mas|84. Owens-Illinois, Inc., Child resistant package.
- 286|Mas|84. Engineering Patents & Equipments Limited Cartridge firing arrangement. (April 26, 1983).

24th April, 1984

- 287|Mas|84. Y-Tex Corporation. Male component for two-piece animal tag.
- 288|Mas|84. Monsanto Company. Improved partially oriented nylon yarn and process.
- 289|Mas|84. Sumitomo Chemical Company, Limited. Nitrogen-containing heterocyclic compounds, and their production and use.
- 290|Mas|84. Joint Systems, Inc. Pipe joint coating applicator.
- 291|Mas|84. Jeumont-Schneider, Solar energy refrigeration device.

25th April, 1984

- 292|Mas|84. Shell Internationale Research Maatschappij B.V. Catalyst preparation.

26th April, 1984

- 293|Mas|84. Fosroc International Limited. Improved anchoring capsule containing self-setting composition. (April 26, 1983).
- 294|Mas|84. James Mackie & Sons Limited. Wrap Spinning. (April 27, 1983).
- 295|Mas|84. Adnovum AG. Dewatering process, procedure and device.

27th April, 1984

- 296|Mas|84. Stauffer Chemical Company. Mixed long-chain alkylammonium salts of N-Phosphonomethylglycine.
- 297|Mas|84. Stauffer Chemical Company. Mixed alkylsulfonium salts of N-Phosphonomethylglycine.
- 298|Mas|84. Stauffer Chemical Company. Bis-Alkylphosphonium salts of N-Phosphonomethylglycine.
- 299|Mas|84. The Roc Group plc. Treatment of water. (April 29, 1983).
- 300|Mas|84. D. Benny. Cork Opener.
- 301|Mas|84. V. Anandhi. Eezeview.

28th April, 1984

- 302|Mas|84. T. Muthu. A puzzle.
- 303|Mas|84. K. M. Thomas & K. T. Mathew. Coconut pith sheets and a process of manufacturing the same.
- 304|Mas|84. K. M. Thomas & K. T. Mathew. Coconut pith structural members and a process of manufacturing the same.
- 305|Mas|84. K. M. Thomas & K. T. Mathew. Rubberised coconut pith sheets and a process of manufacturing the same.
- 306|Mas|84. C. Hariprasad. Improved drum.
- 307|Mas|84. C. Hariprasad. U. V. Fermenter.
- 308|Mas|84. Monsanto Company. Deodorized compositions.
- 309|Mas|84. W. S. Insulators of India Limited. A voltage dependent Non-linear resistor element.
- 310|Mas|84. W. S. Insulators of India Limited. Surge arresters.

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CLASS : 24B; 32C. 153141.
Int. Cl. C07 c 37|00, F16 d 69|02.

COMPOSITE FRICTION ELEMENT.

Applicants : AMSTED INDUSTRIES INCORPORATED, 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventor : 1. JOHN B. LITTLEFIELD.

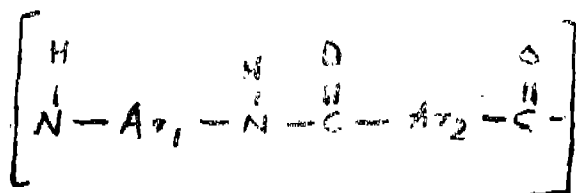
Application No. 227|Cal|80 filed February 27, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A brake shoe friction element comprising a binder material comprising a vulcanizable rubber, a synthetic resin and curing agent, said binder material having distributed therethrough hard mineral fillers, friction modifiers, reinforcing fibers and an absorptive filler having an absorptive capacity sufficient to absorb any binder decomposed during braking, such absorptive filler comprising 30 to 50 percent by weight of the brake shoe friction material and having an oil absorption value of at least 30.

the reinforcing fibers being polymers comprising 0.5 to 10 percent by weight of the brake shoe friction material and characterized by recurring units of the formula I of the drawings,



Wherein Ar₁ is selected from the group consisting of p-phenylene, a chloro-substituted p-phenylene, and 4, 4'-substituted diphenyl methane and Ar₂ is p-phenylene.

Compl. Specn. 20 pages. Drgs. 1 Sheet.

CLASS : 163B₁ d. 153142.
Int. Cl. F04 c 1|00.

ROTARY PUMPS.

Applicants : KLEIN, SCHANZLIN & BECKER AG, OF POSTFACH 225, JOHANN-KLEIN-STRASSE 9, D-6710 FRANKENTHAL (PFALZ), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. ROBERT DERNEDDE, 2. HANS JOACHIM FRANKE, 3. PETER HAVEKOST.

Application No. 1104|Cal|80 filed September 29, 1980.

Appropriate office for opposite proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

12 Claims.

A rotary pump having a spiral casing and a pressure casing surrounding the spiral casing characterised in that the spiral casing and the pressure casing are connected together by a floating sealed connection and in that the spiral casing is suspended from the pressure casing.

Compl. Specn. 8 pages.

Drgs. 1 Sheet.

CLASS : 158E₂. 153143.
Int. Cl. B61 f 5|04.

AN IMPROVED RAILWAY TRUCK FRICTION SHOE.

Applicants : AMSTED INDUSTRIES INCORPORATED, 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventors : 1. JAMES M. KEMPER AND 2. LYNN K. TILLY.

Application No. 1273|Cal|80 filed November 14, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An improved railway truck friction shoe for use in a railway truck comprising a side frame having substantially upright columns defining an opening, a bolster supported in said opening, friction surfaces provided on said upright columns, guiding surface means on said bolster, and friction shoe means disposed between said bolster and said column, said friction shoe means including a substantially vertical wall engageable with the friction surface on said upright column, wherein the improvement comprises at least one vertically convex slope surface on said friction shoe means engageable with the guiding surface means on said bolster, a vertical spring engaging said friction shoe means and urging said friction shoe slope surface into contact with the guiding surface of said bolster, said slope surface and said guiding surface engaging at least one contact point, slope surface being so designed such that, under normal bolster operation and where said bolster is tilted from the vertical up to 1°, said friction shoe vertical wall maintains flush contact with the friction surface on said upright column.

Compl. Specn. 11 pages.

Drgs. 3 Sheets.

CLASS : 158E₄. 153144.
Int. Cl. B61 f 5|38.

RAILWAY TRUCK ASSEMBLY.

Applicants : AMSTED INDUSTRIES INCORPORATED, 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventor : 1. HARRY WILLIAM MULCAHY.

Application No. 1064|Cal|80 filed September 18, 1980.

Appropriate office for opposite proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A railway truck assembly comprising a pair of laterally spaced side frames, a first wheel set and a second wheel set longitudinally spaced from said first wheel set, each wheel set being connected to said side frames for independent turning movement relative thereto, a first steering arm connected to said first wheel set for movement therewith, a second steering arm connected to said second wheel set for movement therewith characterized by connecting means substantially intermediate said first wheel set and said second wheel set connecting said first steering arm to said second steering arm in side-by-side relationship, said connecting means including laterally spaced pivot means providing vertical pivot axes about which said first steering arm and said second steering arm are relatively rotatable and which transmit wheel set turning forces between said first wheel set and said second wheel set.

Compl. Specn. 15 pages.

Drgs. 2 Sheets.

CLASS : 31C.

153145.

Int. Cl. H01 1 9/00.

SWITCHING CIRCUIT.

Applicants : WESTERN ELECTRIC COMPANY, INCORPORATED, OF 222 BROADWAY, NEW YORK CITY, NEW YORK STATE, UNITED STATES OF AMERICA.

Inventors : 1. ADRIAN RALPH HARTMAN, 2. TERENCE JAMES RILEY AND 3. PETER WILLIAM SHACKLE.

Application No. 1376/Cal/80 filed December 12, 1980.

Conventional date 14th December, 1979 (53867/79) (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A switching circuit including : a gated diode switch comprising a semiconductor body having a bulk portion of a first conductivity type, a first region of the first conductivity type a second region of a second conductivity type opposite to the first conductivity type and constituting a first output point of the circuit and a gate region of the second conductivity type, the first second and gate regions being mutually disjoint regions within the body and having resistivities lower than the resistivity of the bulk portion; an amplifier/switch connected between a second output point of the circuit and the first region; and level shifting means connected between the second output point and the gate region; whereby in operation, with suitable voltages applied to the output points of the circuit, when the amplifier/switch is in the "OFF" state a depletion region is formed in the bulk portion of the body substantially preventing current flow between the first and second regions, and when the amplifier/switch is in the "ON" state current flow between the first and second regions is facilitated by injection into the bulk portion of majority carriers from the first region and minority carriers from the second region.

Compl. Specn. 13 pages.

Drgs. 3 Sheets.

CLASS : 40F and 130F.

153146.

Int. Cl. C22 b 59/00.

SEPARATION OF RARE EARTH METALS.

Applicants : ASAH KASEI KOGYO KABUSHIKI KAISHA, OF 2-6, DOJIMAHAMA 1-CHOME, KITA-KU, OSAKA, JAPAN.

Inventors : 1. TETSUYA MIYAKE, 2. KUNIHICO TAKEDA, 3. HATSUKI ONITSUKA, 4. KAZUO OKOYAMA, 5. YASUKI SHIMANURA.

Application No. 1377/Cal/80 filed December 12, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Improvement in a conventional process for obtaining rare earth metals separately from a mixture of at least two rare earth metals by chromatographic displacement using a complexing agent and a cation exchanger characterized in that the improvement comprises in using a cation exchanger having a microvoid volume ratio 0.5 to 0.95.

Compl. Specn. 35 pages.

Drgs. 2 Sheets.

CLASS : 15E.

153147.

Int. Cl. F16 c 32/00, 13/00.

ROLLER BEARING.

Applicants : METALLGESELLSCHAFT A. G. OF 16, FRANKFURT A. M., REUTERWEG, WEST GERMANY.

Inventor : 1. RUDOLF KREBS.

Application No. 110/Cal/81 filed January 31, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A roller bearing for taking up substantially vertically acting forces in structures, comprising lower and upper horizontal carrying plates and interposed rollers permitting a displacement of said carrying plates relative to each other, characterized in that a disc-shaped flange (4) is provided at each of the ends of the rollers (1), which laterally protrude from the carrying plates (2, 3), and is rigidly connected to the roller (1) and at least two cylindrical constraining pins (5) are inserted in each flange (4) and extend into openings (6) in the carrying plates (2, 3).

Compl. Specn. 9 pages.

Drgs. 2 Sheets.

CLASS : 98E.

153148.

Int. Cl. F24 j 3/00.

SOLAR PLANT FOR LIFTING LIQUID FROM A SOURCE.

Applicants : GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY ENERGETICHESKY INSTITUTIMENI G. M. KRZHIAHANOVSKOGO, OF LENINSKY PROSPEKT. 19, MOSCOW, U.S.S.R.

Inventors : 1. VLADIMIR ISAAKOVICH KABAKOV, 2. SERGEI VASILIEVICH TEPOV, 3. IVAN TIMOFEEVICH ALADIEV, 4. IRINAIVANOVNA KOKHOVA, 5. VLADIMIR ALEXANDROVICH MUKHIN, 6. JURY NIKOLAEVICH MALEVSKY.

Application No. 286/Cal/81 filed March 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A solar plant for lifting liquid from a source, comprising a solar-heat collector for producing vapour, provided with a turning gear, and a liquid feed system connected with the liquid source and a consumer and made in the form of a multijet injector comprising a central nozzle for a liquid-vapour mixture, communicating with a solar-heat collector outlet, peripheral nozzles for liquid, connected to the liquid source, a convergent mixing chamber, a diffuser with a throat, whose outlet is connected with the consumer, a collector inlet and with the solar-heat collector turning gear.

Compl. Specn. 14 pages.

Drgs. 2 Sheets.

CLASS : 123.

153149.

Int. Cl. B01 J 2/04; C05 b 19/00.

PROCESS AND APPARATUS FOR GRANULATING SOLIDIFIABLE FLUID MATERIALS.

Applicants : TOYO ENGINEERING CORPORATION; AND MITSU TOATSU CHEMICALS, INCORPORATED, BOTH OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. BUNJI KINNO, 2. HIROSHI HIRAYAMA, 3. TETSUZO HONDA.

Application No. 1297/Cal/80 filed November 20, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims.

A process for granulating solidifiable fluid material which comprises feeding priming granules of a particulate material as hereinbefore described to a spouted bed granulation zone and spraying an adherent and solidifiable liquid of at least one fertilizer material selected from urea, ammonium nitrate, ammonium chloride and other salts useful as fertilisers and having

a temperature of 80 to 170°C, together with a gas stream such as air and inert gases such as nitrogen and carbon dioxide, into said spouted bed granulation zone to form a spouted bed of said priming granules where said priming granules are enlarged by depositing said adherent and solidifiable liquid on the surfaces thereof, the improvement comprising the steps of providing a plurality of spouted bed granulation zones arranged in series and one or more fluidizing and cooling zones for cooling and drying purposes each disposed between two adjacent ones of said spouted bed granulation zones; introducing said priming granules having a particle diameter of 0.1 to 4 mm into the spouted bed granulation zone located at the first stage; passing said priming granules through said spouted bed granulation zones and said fluidizing and cooling zones successively, whereby said adherent and solidifiable liquid sprayed into each of said spouted bed granulation zones becomes attached to said priming granules and said priming granules having said adherent and solidifiable liquid attached thereto are fluidized with a gas stream such as air and inert gas such as nitrogen and carbon dioxide in the succeeding fluidizing and cooling zone and hereby cooled and/or dried; and withdrawing the enlarged granules from the spouted bed granulation zone located at the last stage.

Compl. Specn. 34 pages.

Drgs. 7 Sheets.

CLASS : 190D.

153150.

Int. Cl. F 03 d 3/06.

A ROTOR.

Applicants : NEDERLANDSE CENTRALE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK, OF JULIANA VAN STOLBERGLAAN 148, 2595 CL THE HAGUE, THE NETHERLANDS.

Inventor : 1. FREDERIK HENDRIK LEEUWRIK.

Application No. 649/Cal/79 filed June 26, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A rotor, rotatable about an axis of rotation for with-drawing or transmitting kinetic energy from or to a fluid comprising at least two identical, uniformly spaced blades extending helically about the rotary axis of the rotor and arranged on a core, in which the points of origin and termination of the blades are located in planes at right angles to the rotary axis of the rotor, whilst the height of the blade measured in a radial direction between the outer or lateral edge of the blade and the core from the plane of origin towards the plane of termination of the blade remains the same or increases or decreases gradually or in wave-shaped fashion, the front and/or rear edges of the blades optionally being inclined forwardly or backwardly, and the outer or lateral edges of the blades terminate in tips, wherein the blade length measured along the outer edge of the blade is at least equal to one and a half times the blade height, the ratio between blade height and blade distance between two neighbouring blades lies between 0.5 and 2.5 and the pitch angles of the blades lies between 5° and 55°.

Compl. Specn. 19 pages.

Drgs. 6 Sheets.

CLASS : 32F.

153151.

Int. Cl. C 07 d 55/42.

PROCESS OF OBTAINING CYANURIC CHLORIDE IN SOLID STATE.

Applicants : DEUTSCHE GOLD-UND SILBER SCHED-DEANSTALT VORMALS ROESSLER OF 9 WEISSFRAUEN-STRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. RALF GOEDECKE, 2. MARTIN LIEBERT, 3. DR. WOLFGANG NISCHK, 4. DR. WOLFGANG PLOTZ, 5. KURT PUSCHNER.

Application No. 890/Cal/79 filed August 29, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A process for recovering cyanuric chloride in the form of solids only obtained from conventional trimerisation of cyanogen chloride characterized in that the reaction product gas mixture of the said trimerisation process is introduced into an apparatus combination consisting of a stripping column having a condenser in operational communication with the same, preferably as a head condenser and more preferably provided above the said stripping column, the sump of the stripping column being held at the boiling point of cyanuric chloride whereby the gas mixture passing through the condensation column is subjected to at least partial condensation depending upon the temperature at the outlet of the condenser in the region of 146°C—190°C, thereafter, the liquid cyanuric chloride collected at the bottom of the stripping column is withdrawn while the residual or uncondensed gases still containing part of the non-condensed cyanuric chloride is led to a separation chamber where the gases are cooled in the known manner so as to obtain cyanuric chloride in solid form, and the liquid cyanuric chloride thus collected from the sump of the stripping column is subjected to spraying in a spraying tower so as to obtain all the liquid sprayed in the form of fine granules of cyanuric chloride.

Compl. Specn. 14 pages.

Drgs. 1 Sheet.

CLASS : 32F.

153152.

Int. Cl. C07 d 55/42.

A PROCESS FOR RECOVERING CYANURIC CHLORIDE IN SOLID AND LIQUID FORMED.

Applicants : DEUTSCHE GOLD-UND SILBER SCHED-DEANSTALT VORMALS ROESSLER, OF 9 WEISSFRAUEN-STRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. RALF GOEDECKE, 2. MARTIN LIEBERT, 3. DR. WOLFGANG NISCHK, 4. DR. WOLFGANG PLOTZ AND KURT PUSCHNER.

Application No. 891/Cal/79 filed August 29, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for recovering cyanuric chloride in solid and liquid form obtained from conventional trimerisation of cyanogen chloride characterised in that the reaction product gas mixture of the said trimerisation process is introduced into an apparatus combination consisting of a stripping column having a condenser in operational communication with the same, preferably as a head condenser and more preferably provided above the said stripping column, the sump of the stripping column being held at the boiling point of cyanuric chloride whereby the gas mixture passing through the condensation column is subject to at least partial condensation depending upon the temperature at the outlet of the condenser in the region of 146°C—190°C, thereafter, the liquid cyanuric chloride collected at the bottom of the stripping column is withdrawn while the residual or uncondensed gases still containing part of the non-condensed cyanuric chloride is led to a separation chamber where the gases are cooled in the known manner so as to obtain cyanuric chloride in solid form.

Compl. Specn. 13 pages.

Drg. 1 Sheet.

CLASS : 5C.

153153.

Int. Cl. C13 c 1/02.

AN IMPROVED SUGAR CANE HARVESTER.

Applicants & Inventor : CHRISTOPHER JOHN CANNAN, OF IONA ROAD, HOME HILL, QUEENSLAND 4806, AUSTRALIA.

Application No. 969/Cal/79 filed September 15, 1979.

Conventional date 15th September, 1978 (PD 5981) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A sugar cane harvester of the type having a mobile frame, a base cutter on the frame for cutting cane stalks at or near to ground level as the harvester advances, a chopping cutter on the frame, means for feeding cut cane stalks to the chopping cutter which cuts them into billets, and means for elevating and discharging the billets, wherein the chopping cutter and elevating means include :

a rotary cutter having a knife blade on a rotatable shaft,

a vane thrower, rotatable about an axis parallel to that of the rotary cutter shaft,

means for counter-rotating the rotary cutter and the rotary thrower,

the rotary cutter knife blade coacting with a vane of the thrower to sever cane fed thereto into billets,

the thrower thereafter throwing the severed billets upwardly, and

a cane guard chute extending essentially upright from the thrower and receiving such severed billets, the upper part of said chute curving downwardly to an outlet for the billets,

the speed of rotation of said thrower being such that said thrower propels the severed billets upwardly into and through said cane guard chute, without, separate assistance, into a collecting bin.

Compl. Specn. 10 pages.

Drgs. 2 Sheets.

CLASS 32F_a a.

153154.

Int. Cl. C07 c 69/82.

RECOVERY OF DIMETHYL TEREPHTHALATE AND INTERMEDIATES FROM THE TARRY FRACTION OF COOXIDATION PROCESS RESIDUE.

Applicants : HERCOFINA HERCULES INCORPORATED AND AMERICAN PETROFINA, INCORPORATED, STREET, WILMINGTON, NORTH CAROLINA, UNITED STATES OF AMERICA.

Inventor : 1. HORACE EDWARD HOOD.

Application No. 1066/Cal/79 filed October 12, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

In a process for the heat treatment of the tarry fraction of DMT esterified oxidate residue to recover dimethyl terephthalate the reform, the improvement wherein said tarry fraction is heat treated in admixture with a catalytic quantity of alkali metal material.

Compl. Specn. 11 pages.

Drgs. Nil.

CLASS 39E.

153155.

Int. Cl. C 01 b 25/10.

PROCESS AND APPARATUS FOR RECOVERING PHOSPHORUS TRICHLORIDE FROM A GAS STREAM.

Applicants : STAUFFER CHEMICAL COMPANY, WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.

Inventors : 1. ALAN LOUIS KEMPNER, 2. ROBERT HAROLD KAPLAN.

Application No. 1071/Cal/79 filed October 15, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A process for recovering phosphorus trichloride contained in a gas stream from the stream comprising :

(a) contacting the gas stream with a condensing amount of liquid phosphorus trichloride to condense a portion of the gaseous phosphorus trichloride contained in the said gas stream to liquid phosphorus trichloride wherein the condensing amount of liquid phosphorus trichloride to gaseous phosphorus trichloride is at least 10 : 1;

(b) separating in known manner the liquid phosphorus trichloride from the gas stream.

Compl. Specn. 11 pages.

Drgs. 1 Sheet.

CLASS : 15E.

153156.

Int. Cl. F16 c 19/38.

MULTIROW BEARING.

Applicants : THE TIMKEN COMPANY, OF 1835 DUEBER AVE, SOUTHWEST, CANTON, OHIO UNITED STATES OF AMERICA.

Inventor : 1. GERHARD RETIER.

Application No. 1280/Cal/79 filed December 7, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A multirow bearing comprising a unitary inner race having a pair of intermediate raceways and a pair of tapered end raceways, the intermediate raceways being located between the end raceways, the end raceways having their large ends presented away from each other and away from the intermediate raceways; a segmented outer race having a pair of intermediate raceways surrounding the intermediate raceways of the inner race and a pair of end raceways surrounding the end raceways of the inner race so that each raceway on the outer race surrounds and corresponds to a different raceway on the inner race; rollers arranged in rows between corresponding raceways of the inner and outer races, there being a different row of rollers between each set of corresponding intermediate and end raceways; means located between the intermediate rows of rollers and abutting against the adjacent ends of those rollers for separating the rollers of the two intermediate rows in the axial direction end rib rings located against the ends of the outer race and projecting inwardly past the large diameter ends of the end raceways to about the outer ends of the rollers in the end rows so as to prevent those rollers from being expelled from the bearing; seal cases fitted over the end rib rings, the seal cases being configured to capture the rib rings therein such that the rib rings cannot move axially away from the outer race and further being secured to the outer race to unitize the bearing at least for handling purposes; and sealing means on the seal cases and cooperating with the inner race to form barriers at the ends of the bearing.

Compl. Specn. 16 pages.

Drgs. 3 Sheets.

CLASS : 6B_a, 6B_b, 40H.

153157.

Int. Cl. B01 d 47/00, 49/00, 50/00, 53/00.

IMPROVEMENTS IN A PROCESS FOR REMOVING ACIDIC COMPONENT AND OTHER HARMFUL SUBSTANCE FROM WASTE OF EXHAUST GASES.

Applicants : MASCHINENFABRIK BUCKAU R. WOLF A. G., OF 4048 GREVENBROICH 1, LINDENSTR. 43, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HORST BECHTHOLD, 2. ULRICH MOHN.

Application No. 103/Cal/80 filed January 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Improvements in a process for purifying waste gases or exhaust gases containing acidic components and other harmful gaseous substances particularly obtained from a coal or oil fired power plant which comprises treating main stream of the said gases in an electrostatic or mechanical dust separator and a gas washer prior to its exhaust through a chimney is characterized in that a smallish part of the said gases is taken off before air heater for inlet air for the power plant and conveyed to a spray-drier and then to a dust separator and is subsequently mixed with the said main stream of the said gases before and/or after the electrostatic or mechanical dust separator, and that the wash solution from the gas washer being conveyed wholly or partly to the said spray drier.

Compl. Specn. 10 pages.

Drgs. 2 Sheets.

CLASS : 148L.

153158

Int. Cl. G03 c 1/00.

PHOTOGRAPHIC FILMS.

Applicants : VEB FILMFABRIK WOLFEN, OF 444 FOLFEN 1, GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. CHRISTOPH ROTH, 2. DIETER PLASCHNIK, 3. LUTZ NOSSKE, 4. HARALD SCHIRGE, 5. BRIGITTE HESSE, 6. HFINZ JESCHEK.

Application No. 221/Cal/80 filed February 26, 1980.

Conventional date 14th September, 1979 (31979/79) (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A photographic film, comprising a film substrate a silver halide emulsion layer containing a binding agent and, optionally, one or more other layers containing a binding agent, wherein at least one of the said layers contains a dispersion of a polyvinyl chloride or a vinyl chloride copolymer that has been produced by micro-suspension polymerisation or by seed polymerisation, the amount of the said polyvinyl chloride or vinyl chloride copolymer being from 5 to 50% by weight, calculated on the dry weight of the binding agent in the said layer.

Compl. Specn. 12 pages.

Drgs. Nil.

CLASS : 31C.

153159.

Int. Cl. H01 c 7/00.

TEMPERATURE SENSITIVE ELECTRICAL ELEMENT AND METHOD OF MAKING THE SAME.

Applicants : TRW INC. OF 10880 WILSHIRE BOULEVARD, LOS ANGELES, CALIFORNIA, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT GENE HOWELL.

Application No. 500/Cal/80 filed May 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A temperature sensitive electrical element characterized by a highly linear relationship of resistance to temperature and a relatively high negative temperature coefficient of resistance comprising a substrate and a resistor, the resistor including a film of glass on a surface of the substrate having conductive particles composed mainly of an oxide of titanium embedded in and dispersed through out the film.

Compl. Specn. 15 pages.

Drgs. 1 Sheet.

CLASS : 139B.

153160.

Int. Cl. C01 b 23/00.

PROCESS FOR THE RECOVERY OF ARGON.

Applicants : PETROCARBON DEVELOPMENTS LIMITED, OF PETROCARBON HOUSE, SHARSTON ROAD, MANCHESTER M22 4TB, UNITED KINGDOM.

Inventors : 1. WIESLAW HENRYK ISALSKI,

2. GREGORY JOSEPH ASHTON.

Application No. 762/Cal/80 filed July 2, 1980.

Conventional date 12th July, 1979 (24348/79) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A process for the recovery of argon from a tail gas stream remaining after treating an ammonia synthesis purge gas for the recovery therefrom of hydrogen values, said tail gas stream being at super-atmospheric pressure and containing methane, argon and nitrogen and residual hydrogen and said process comprising :

(i) separating said tail gas stream by partial condensation into a condensate containing methane, argon and nitrogen and an uncondensed gas stream containing substantially all of the residual hydrogen in said tail gas stream, said separation being effected by cooling said tail gas stream in a plurality of heat exchange steps, in which condensed gas is separated out after at least the penultimate heat exchange step and thereafter the uncondensed gas is passed upwardly in the final heat exchange step with condensed material formed therein flowing downwards in contact with the rising gas stream and mixing with said condensed gas to form said condensate; and recovering said uncondensed gas stream containing substantially all of the residual hydrogen from said final heat exchange step;

(ii) expanding and partially evaporating said condensate to produce a fractioning stream;

(iii) separating said fractioning stream by fractional distillation at sub-ambient temperature and superatmospheric pressure in two distillation columns in series, wherein in the first distillation column a liquid methane stream is separated as the bottoms product and a gaseous stream containing nitrogen and argon is recovered as the overhead product and passed without an intermediate pressure reduction step to the second distillation column in which it is fractionated to produce argon as the bottoms product and a gaseous nitrogen stream as overhead product;

and wherein the heat for reboil and the cooling for reflux for the distillation columns are provided by a single heat pump cycle in which the heat transfer fluid is provided from the said gaseous nitrogen stream;

the cold requirements of the process are supplied by an open refrigeration cycle in which the refrigerant is provided from the said gaseous nitrogen stream;

and reflux in the final heat exchange step in (i) is provided by evaporation of a coolant passed in indirect counter current heat exchange relationship with said rising gas, said coolant comprising a stream containing liquid nitrogen stream and the bubble point of which has been lowered by combining it with a gas stream obtained by expanding gas provided from the uncondensed gas stream obtained in step (i)

Compl. Specn. 20 pages.

Drgs. 1 Sheet.

CLASS : 94A.

153161.

Int. Cl. B02 c 23/00.

A PULVERIZER FOR COMMUNUTING SOLID MATERIAL.

Applicants : THE BABCOCK & WILCOX COMPANY, LOCATED AT 1010 COMMON STREET, NEW ORLEANS, LA, U.S.A.

Inventors 1. JOHN R KITTO, JR 2 EDWIN KOWALSKI.

Application No. 905/Cal/80 filed August 7, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

'A pulverizer for comminuting solid material which includes a casing having an outlet in its upper portion for pulverized material suspended in carrier air, inlets for carrier air and material to be pulverized, a grinding ring in a lower portion of the pulverizer, means for rotating the grinding ring about a central vertical axis, a multiplicity of grinding elements co-operating with the grinding ring for grinding the material deposited thereon, an annular carrier air plenum located below the grinding ring, radially spaced inside and outside walls defining a throat, a throat inlet, a throat outlet, and radial width of the throat communicating with the air plenum and discharging carrier air adjacent to the grinding ring, vanes mounted in the throat at equal angles to the horizontal and arranged to subdivide the throat into a plurality of circumferentially adjacent passages, wherein the improvement comprises an increased radius of curvature of the inside wall and outside wall of the throat inlet and an increased radius of curvature of the outside wall of the throat outlet such that the ratio of the radius of curvature of the inside and outside walls of the throat inlet and the outside wall of the throat outlet to the radial width of the throat is greater than 0.5 and less than 1.5 and vanes, each vane having a top side with an air foil configuration resulting in a gradual acceleration of air flow from the throat inlet to an intermediate portion of the throat and a gradual deceleration of air flow from the intermediate portion to the throat outlet to minimize dribble of solid material downward through the throat, to reduce erosion of bounding surfaces at the throat outlet and to reduce air pressure loss through the pulverizer

Compl. Specn. 8 pages.

Drgs. 2 Sheets.

CASS : 155A.

153162.

Int. Cl. D06 m 15/00.

IMPROVEMENTS IN OR RELATING TO A METHOD AND APPARATUS FOR THE TREATMENT OF A WEB.

Applicants : EDUARD KUSTERS, OF GUSTAV-FUNDERS-WEG 18 4150 KREFELD, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. MANFRED DRIESSEN, 2. WALTER KELLER 3. JOHANNES KUTZ.

Application No. 929/Cal/80 filed August 14, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A method for the continuous treatment of a web (as herein defined) in which a treating agent is applied to the web, said method comprising the steps of applying a foam, containing a treating agent such as herein defined to the periphery of a rotating drum, rotating the drum so that the foam thereon passes doctor means which shape the foam on the drum so that the layer of foam on the drum has a predetermined thickness and configuration and causing the web freely to engage the foam covered periphery of the drum and to co-rotate therewith through a predetermined angle.

Compl. Specn. 18 pages.

Drgs. 2 Sheets.

CLASS : 60FD.

153163.

Int. Cl. A 41 b 9/02.

MAN'S PANTIES.

Applicants & Inventor : SEUS YUNG CHUNG, OF 1102, SHINRIM 8-DONG, KWANAK-KU, SEOUL, KOREA.

Application No. 935/Cal/80 filed in August 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

Panties for use by men, consisting of the usual opening (2) and cover (3), characterized by :

(a) a band-type ring (6) attached to the upper part of the opening (2);

(b) a rubbing cloth (7) attached to the cover (3); and

(c) a number of wrinkles (5) (5') formed on the bottom of the cover (3), providing a broad space between the panties and the cover (3).

Compl. Specn. 5 pages.

Drgs. 1, Sheet.

CLASS : 158Ea.

153164.

Int. Cl. B61 f 5/24.

AN IMPROVED RAILROAD CAR TRUCK.

Applicants : AMSTED INDUSTRIES INCORPORATED, OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A.

Inventors : 1. OTTO W. NEUMANN AND 2. JAMES A. HENKEL.

Application No. 1125/Cal/80 filed October 10, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

An improved railroad car truck having a pair of spaced side frames joined by a transversely positioned bolster having ends resiliently carried in a window formed in each said side frame, the improvement therein comprising,

a pair of friction shoe pockets formed in each said end of said bolster, one each of said pair facing to a front and to a rear of said truck, each said pocket defined by a pair of spaced downwardly and outwardly sloped friction surfaces forming a concave-like receiving area, and

a set of four friction shoes, one each of said shoes disposed in each of said friction shoe pockets, each said shoe having a pair of spaced downwardly and outwardly sloped wear surfaces forming a convex-like seating area for complementary engagement with said bolster pocket receiving area,

wherein said shoe remains centered within said pocket to provide a three-dimensional wedging effect to improve dynamic stability of said truck by maintaining said side frames and said bolster in a squared relationship while each said friction shoe regulates in part vertical movements of said bolster.

Compl. Specn. 12 pages.

Drgs. 3 Sheets.

CLASS : 84A, 47B.

153165.

Int. Cl. C10 j 3/54, 3/56.

A REACTOR AND A METHOD FOR CONVERTING CARBONACEOUS PARTICLES TO A FUEL GAS.

Applicants : INSTITUTE OF GAS TECHNOLOGY, OF 3424 SOUTH STATE STREET, CHICAGO, ILLINOIS 60616, U.S.A.

Inventors : 1. JITENDRA G. PATEL, 2. FRANK C. SCHORA, 3. JOHN W. LOEDING.

Application No. 1147/Cal/80 filed October 9, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A reactor for converting carbonaceous particles, such as crushed coal to a fuel gas comprising an outstanding elongated

reactor having an upstanding reactor wall and a supporting plate-like member for supporting a fluidized bed and for distributing gases in the lower portion of the reactor, a discharge duct for withdrawing ash from the supporting member in the lower portion and an assembly for forming a mixture of gas and carbonaceous particles including a coal supply hopper, a gas supply inlet, a mixing zone, and a duct for introducing said mixture into said fluidized bed in the lower portion of the reactor as a predetermined velocity, characterised in that the supporting and gas distribution plate includes a plurality of portions sloping downwardly to a plurality of venturi-type ash withdrawal throats uniformly positioned in said supporting and gas distribution plate and associated with said sloping portion and a plurality of the inlet ducts equally spaced around the perimeter of the reactor adjacent the bottom of the fluid bed in the supporting and gas distribution plate or in the side-walls of the reactor, for high velocity introduction of a mixture of carbonaceous particles in a gas stream.

Compl. Specn. 15 pages.

Drgs. 2 Sheets.

CLASS : 195F.

153166.

Int. Cl. B 60 c 29/00.

AIR VALVES FOR PNEUMATIC TYRES.

Applicants & Inventor : KYUNG DONG LEE, OF 326 JIYOUNGRI, BYOKJAE-MYUN, KOYANG-KUN, KYUNG-GI-DO, KOREA.

Application No. 1153/Cal/80 filed October 10, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An air valve for a pneumatic tyre comprising an externally threaded body portion mounted on the tyre and an internally threaded valve housing secured to the body portion by screw threaded engagement, the valve housing having an air inlet and a two stage valve chamber containing a valve biasing spring and a valve member with a projection extending into the said air inlet and being adapted to be depressed by means of a tool externally of the valve housing, for opening the valve and deflating the tyre.

Compl. specn. 6 pages. Drgs. 1 sheet.

CLASS : 166C.

153167.

Int. Cl. B 63 h 1/26.

A SHIP'S PROPELLER.

Applicants : ASTILLEROS ESPANOLAS, S. A., OF PADILLA, NO. 17, MADRID, SPAIN.

Inventors : 1. RAMON RUIZ-FORNEILLS, 2. GONZALO PEREZ GOMEZ.

Application No. 1238/Cal/80 filed November 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A ships propeller of fixed blade or orientable blade type (the geometrical definitions hereinafter included referring in this case to the design pitch condition) in juxtaposition with a non-rotating duct, said propeller having an axis, a diameter and a plurality of blades, each blade comprising (a) a basic generative line (b) a fixed plate at the tip section and (c) a back or suction side, the duct (d) being coaxial with and displaced from said propeller and located on the back or suction side thereof, (e) its after or down stream side being an extension of a geometric figure ideally generated (by a cross-section of an axial plane through the basic generative line of a blade, with the fixed plate) on rotation of said fixed plate about the axis, (f) having an internal radius at a point adjacent to the fixed plate which is approximately that of said geometric figure at a point which is closed to said duct, (g) providing means to direct a fluid stream to-

ward said back or suction side of said propeller in substantially shuck-free contact with each fixed plate, and (h) having a length at its shortest point which is at least 5 per cent of the propeller diameter and at most 2 times the propeller diameter.

Compl. specn. 11 pages.

Drgs. 5 sheets.

CLASS : 14B.

153168.

Int. Cl. H 01 m 1/00, 5/00.

IMPROVED FILTERPROOF DRY CELL.

Applicants : UNION CARBIDE INDIA LIMITED, OF 1, MIDDLETON STREET, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventor : 1. BHAWANI PROSAD GHOSH.

Application No. 147/Cal/81 filed February 10, 1981.

Patent of Addition to 228/Cal/80 dt. 27th February, 1980.

Complete specification left dated 26th May 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A dry cell as described and claimed in co-pending Application No. 228/Cal/1980 in which the flange of metal cap for exposed top of carbon electrode thereof is fully encased in a plastics material characterised in that the contact knob of the metal cap of the carbon electrode is provided with a breakable seal of a plastics material said breakable seal and the plastics casing for the flange being integrally formed by moulding.

Compl. specn. 7 pages.

Drgs. 2 sheets.

Prov. specn 4 pages.

CLASS : 14B.

153169.

Int. Cl. H 01 m 1/00, 5/00.

A METAL CAP FOR CARBON ELECTRODE FOR A DRY CELL AND AN IMPROVED FILTERPROOF DRY CELL FITTED WITH SAID CAP.

Applicants : UNION CARBIDE INDIA LIMITED, OF 1, MIDDLETON STREET, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventor : 1. BHAWANI PROSAD GHOSH.

Application No. 148/Cal/81 filed February 10, 1981.

Patent of Addition to 228/Cal/80. February 27, 1980.

Complete specification left dated 26th May, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A metal cap for exposed top of carbon electrode for a dry cell of the type described and claimed in co-pending Patent Application No. 228/Cal/80 characterised in that plastics casing on the flange of the metal cap is headed at peripheral portion to form raised edges.

Compl. specn. 6 pages.

Drgs. 1 sheet.

Provn. specn. 3 pages.

CLASS : 31C.

153170.

Int. Cl. B 28 d 5/00.

METHOD OF PRODUCING TRANSISTORS HAVING ALTERED ELECTRICAL PARAMETERS FROM ORIGINAL TRANSISTORS.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. PHILIP LELAND HOWER AND 2. RICHARD JOSEPH FIEDOR.

Application No. 246/Cal/81 filed March 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method of producing transistors having altered electrical parameters from original transistors, the method comprising the steps of :

Characterized by determining an electron radiation dosage in a first test batch of the transistors to meet given gain and storage time characteristics by the measurement of at least one characteristic, of the transistors in the first batch;

positioning a surface of at least one semiconductor device of a second batch of original transistors for exposure to the radiation; and

Irradiating said or each semiconductor device of said second batch with electrons having the radiation energy level as determined in the determining step.

Compl. specn. 19 pages.

Drgs. 7 sheets.

CLASS : 69A, K.

153171.

Int. Cl. H 01 h 33/00.

VACUUM ELECTRIC CIRCUIT INTERRUPTERS.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. SIDNEY JOHN CHERRY AND 2. PAUL ORLANDO WAYLAND.

Application No. 325/Cal/81 filed March 25, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A vacuum electric circuit interrupter in which a pair of primary current-carrying electrical contacts are relatively movable into closed position within a hermetically sealed, evacuated, generally cylindrical envelope, the primary current-carrying electrical contacts in the closed position carrying the electrical line current to which the interrupter is connected and being disposed at the extending ends of conductive support rods which are aligned along the cylindrical axis of the envelope and are sealed therethrough to external electrical connection, means, and wherein annular transfer arcing contacts are disposed about each of the primary current-carrying contacts, which annular transfer arcing contacts comprise an annular arcing portion and an axial magnetic field generating portion extending from the back side of the annular arcing portion to a supporting conductive member, whereby when the primary current-carrying contacts are opened the arc which forms between these primary contacts as they are moved apart, transfer to the annular arcing portions of the annular transfer contact, and the arc current flowing through the magnetic field generating means produces an axial magnetic field parallel to the arc path between contacts to maintain the arc diffuse.

Compl. specn. 12 pages.

Drgs. 3 sheets.

CLASS : 174G.

153172.

Int. Cl. F 16 f 3/04, 13/02.

VIBRATION DAMPER FOR A VIBRATIONAL MECHANICAL BODY.

Applicants : SEIKO GIKEN KABUSHIKI KAISHA, AT 5-9, YAGUMO 1-CHOME, MEGURO-KU, TOKYO, JAPAN.

Inventor : 1. MASAKI HORI.

Application No. 342/Cal/81 filed March 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A vibration damper for a vibrational mechanical body, such as a chain saw or motorcycle, which causes a vibratory motion, comprising a support, such as an arm of said vibrational body for manipulation, a cylindrical grip mounted on said support, and a vibration-damping coiled spring having a row of small and large coiled portions and disposed between said support and said grip, with each said small coiled portion being engaged with and supported by said support and each said large coiled portion engaged with and supported by the inner surface of said grip, whereby the vibration transmitted from said vibrational body to said support is absorbed by said vibration-damping coiled spring to control or lessen the vibration transmission to said grip.

Compl. specn. 19 pages.

Drgs. 14 sheets.

CLASS : 97A; 85J.

153173.

Int. Cl. F 27 d 1/14, 11/08.

RECEPTACLE FOR A MELTING FURNACE.

Applicants : MANNESMANN AKTIENGESELLSCHAFT, MANNESMANNFUFER 2, D-4000 DUSSELDORF, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HEINRICH SCHNITZER, 2. VOLKER MAUERMANN.

Application No. 878/Cal/81 filed August 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Receptacle for a melting furnace, especially electric-arc furnace, in which the receptacle wall above the melting zone consists of cooling pipes distributed over the surface and exposed towards the interior of the receptacle, the said pipes being laid in coils adjacent to one another, which are fixed in a supporting construction, characterised by that, the supporting construction comprises pipes (1, 2, 3, 4) and forms a cage consisting of horizontal rings arranged at a distance above one another, which are connected by means of pipes (3).

Compl. specn. 7 pages.

Drgs. 1 sheet.

CLASS : 65B.

53174.

Int. Cl. H 01 f 33/00.

THREE-PHASE AND THREE-LEG CORE OF CORE-TYPE TRANSFORMER.

Applicants : HITACHI LTD., OF 5-1, MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : 1. YOSHITAKE KASHIMA.

Application No. 1170/Cal/81 filed October 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A three-phase and three-leg core of a core-type transformer comprising three main legs spaced in parallel each of which is formed of a plurality of steel sheets stacked in a form similar to a circle in cross section, and upper and lower yokes each formed of a plurality of steel sheets stacked in a form similar to a circle in cross section for magnetically connecting said main legs, the steel sheets forming each of said main legs being diagonally out at opposite longitudinal ends thereof and the steel sheets forming each of said yokes being out in two different fashions, one type of which is of diagonal cuts disposed at opposite longitudinal ends thereof to provide steel sheets of the trapezoidal shape and the other type being of a diagonal cut disposed shape and the other type being of a diagonal cut disposed at one of opposite longitudinal ends thereof and a right angle cut disposed at the other longitudinal end thereof to provide steel sheets of the trapezoidal shape.

the steel sheets for forming each of said yokes having a width greater than the width of the steel sheets for forming each of said main legs;

the longitudinal opposite ends of each of the steel sheets for forming the center main leg of said three main legs interposed between the two outer main legs being cut diagonally at an angle less than 45 degrees and joined diagonally and at a right angle to the steel sheets for forming said upper and lower yokes substantially through the entire surface; and

the longitudinal ends of each of the steel sheets for forming the two outer main legs disposed on opposite sides of the center main leg being cut diagonally at 45 degrees and joined diagonally to the steel sheets for forming the upper and lower yokes in an area in which each of the yoke steel sheets is cut diagonally.

Compl. specn. 17 pages. Drgs. 5 sheets.

CLASS 131B.

133175

Int. Cl. E 21 d 21|00.

MEHTOD AND APPARATUS FOR ROCK BOLTING

Applicants : ATLAS COPCO AKTIEBOLAG, NACKA, SWEDEN.

Inventor : I. BO TORBJORN SKOGBERG.

Application No. 1199|Cal|81 filed October 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Method of rock bolting by using an expansible tube-formed rock bolt (10) that is closed at its ends and has a fluid inlet (18) at its one end through which it is pressurized to expand in a borehole, characterized by the steps of

(a) inserting said one end of the rock bolt (10) in a bolt socket (28) of a holder (21) so that a fluid conduit (40, 45, 47) of the holder is in fluid communication with said fluid inlet of the bolt,

(b) moving the holder (21) to insert the rock bolt (10) in the borehole,

(c) supplying high pressure liquid through said conduit (40, 45, 47) to elastically deform the rock bolt (10) to be expanded and anchored in the borehole,

(d) relieving said conduit (40, 45, 47) and thereby the rock bolt (10) of fluid pressure, and,

(e) removing the holder (21) from the bolt.

(Compl. specn. 11 pages. Drgs. 6 sheets).

CLASS 1271

153176.

Int. Cl. F 16 d 1|00.

A COUPLING SYSTEM

Applicants : EIMCO (GREAT BRITAIN) LIMITED, OF EARLSWAY, TEAM VALLEY GATESHEAD, NE-11 OSB, ENGLAND.

Inventor : I. DAVID GRANT.

Application No. 1280|Cal|81 filed November 17, 1981.

Convention date 17th November, 1980 (36828|80) and 6th February, 1981 (03779|81) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A coupling system comprising a readily separable operating device and a support device having complementary rear and forward portions respectively, two transversely spaced upwardly facing critically angled U-shaped lifting forks located on the upper portion of the support device, one or more transverse lifting pins positioned on the upper region of the operating device and adapted for location in said forks to enable the devices to pivot through a range of movement in a plane and to bring said complementary portions into engagement to inhibit relative movement of the two devices transverse to said plane, and latching means automatically operable from a remote source to take up a latching condition to retain said connected devices with said complementary portions in engagement, or a release condition to allow detachment of the devices.

(Compl. specn. 14 pages. Drgs. 5 sheets).

CLASS : 71 E.

153177

Int. Class : EO 2f 3|81.

"EXCAVATING APPARATUS"

Applicant : UNIT RIG & EQUIPMENT COMPANY, a corporation incorporated under the laws of the State of Texas, United States of America, doing business at 5300 South 49th West Avenue, Tulsa, Country of Tulsa, State of Oklahoma, United States of America.

Inventors : HUBERT JOSEPH McAULAY & ORVILLE BRADFORD FRANCIS.

Application for patent No. 628|Del|79 filed on 5th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 claims

Excavating apparatus comprising a frame, a central shaft attached to said frame, a wheel formed from a pair of concentric circular side walls connected together in spaced parallel relation and freely rotatably mounted on said central shaft, a plurality of circumferentially spaced and stationary front walls extending transversely across said wheel and connected to said side walls, said stationary front walls also extending generally radially outwards toward the periphery of said side walls and terminating in cutting edges extending beyond the periphery of said circular side walls, said spaced stationary front walls forming a plurality of digging buckets located around the circumference of the excavating wheel, each bucket having a pivotal back wall extending between said side walls and pivotally connected thereto adjacent the periphery of said side walls and also adjacent the stationary front wall of the next adjacent bucket, each back wall being pivotal outwardly relative to said central shaft to a material dumping position and inwardly relative to said central shaft to a material receiving position, central chain guide means freely rotatably mounted on said central shaft, offset chain guide means freely mounted for rotation on an axis parallel to and adjustably spaced from said central shaft, a continuous chain

formed from a plurality of links passing around said sprockets, a plurality of push rods a plurality of pivotal connecting links spaced equally along said chain, one push rod for each pivotal back wall, each push rod being pivotally attached at one end to one of said pivotal back walls, an end of each push rod opposite from said one end being pivotally attached to one of said connecting links of said chain, whereby when said wheel rotates, each push rod exerts force on each pivotal connecting link, moving said chain around said sprockets, and whereby movement of said chain causes each push rod to urge its associated back wall to pivot to its material dumping position as each push rod passes adjacent to said offset sprocket and thereafter pivoting its associated back wall to its material receiving position after said push rod passes beyond said offset sprocket.

(Complete specification 14 pages. Drawing 6 sheets).

CLASS : 195 D.

153178.

Int. Class : F 16 k 1/00.

"PILOT OPERATED RELIEF VALVE"

Applicant : VAPOR CORPORATION, a corporation organised under the laws of the State of Delaware, United States of America, located at 6420 West Howard Street, Chicago, Illinois 60648, United States of America.

Inventor : RAYMOND GRANT REIP.

Application for patent No. 633/Del/79 filed on 10th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(5 claims)

A pressure sensitive pilot valve for operating a main pressure relief valve to relieve excess product pressure, having first and second stages in cascade, comprising :

a valve body containing said stages and having first and second inlet ports, exhaust and test ports;

a first stage poppet having first and second positions coacting with a first seat for a first portion, below a predetermined value of product pressure;

second and third seats in said body;

a second stage plunger, having upper and lower ends, coacting with said second and third seats for first and second poppet positions;

means communicating said first seat and first port;

means communicating said first seat and plunger upper end;

means communicating said first port and second seat for a first plunger position;

means communicating said first port, exhaust port, and third seat for a second plunger position;

wherein product pressure in excess of said predetermined value; moves said first poppet from first to second positions, and said second stage plunger moves to said second plunger position, coacting with said second seat and isolating said first inlet port, thereby preventing further product flow through said first seat.

(Complete specification 12 pages. Drawing 3 sheets).

CLASS : 89

153179.

Int. Class : GO 11 7/04.

"PRESSURE MEASURING SUB-ASSEMBLY FOR A PRESSURE GAUGE AND PRESSURE GAUGE INCORPORATING SAID SUB-ASSEMBLY"

Applicant : DRESSER INDUSTRIES, INC., a corporation organised under the laws of the State of Delaware, one of the United States of America, of The Dresser Building, P.O. Box 718, Dallas, Texas 75221, United States of America, Manufacturers.

Inventor : RICHARD HARRY WETTERHORN.

Application for patent No. 638/Del/79 filed on 11th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(18 claims)

A pressure measuring sub-assembly for a pressure gauge comprising in combination :

(a) a pressure responsive element having a displacement portion operatively displaceable in correlation to pressure changes to which it is exposed and a relatively non-displacement portion defining a pressure inlet and adapted for a self-supporting connection to a source of pressure to be measured;

(b) an amplifier for communicating displacement motion of said pressure responsive element to an output shaft supporting a gauge pointer;

(c) means for securing said amplifier to one of the portions of said pressure responsive element; and

(d) an elongated actuator connected to said pressure responsive element and extending therefrom operably to co-operate with said amplifier in effecting said displacement motion communication.

(Complete specification 14 pages. Drawing 3 sheets).

CLASS : 130 G.

153180.

Int. Class : C 22b 11/00.

"THE RECOVERY OF GOLD, SILVER, NICKEL OR COPPER METAL VALUES FROM SOLUTION"

Applicant : CRUCIBLE SOCIETE ANONYME, of 14 Rue Aldringen, Luxembourg, a company registered according to the laws of the Duchy of Luxembourg.

Inventors : RAYMOND JOHN DAVIDSON & VITTORIO VERONESE.

Application for patent No. 639/Del/79 filed on 12th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(9 claims)

A method of recovering metal values selected from gold, silver, copper and nickel from a carbon support having one or more of these values adsorbed thereon in the form of an alkaline earth metal ionic complex, the metal value forming part of the anionic portion thereof, including the steps of contacting the support with a pre-treatment reagent, followed by desorbing the metal values from the support with water having a concentration of metal cations less than 300 ppm. characterised in that the pre-treatment reagent is a mixture of :—

(a) an organic solvent such as an alcohol or a ketone,

(b) a solution selected from the group of an alkali metal cyanide solution, an alkali metal hydroxide solution and a mixture thereof.

(Complete specification 7 pages. Drawing 3 sheets).

CLASS : 32F₅(b) & 55D₁.

153181.

Int. Class :—C07c 69/00 & A01n 9/00.

"A PROCESS FOR THE MANUFACTURE OF CARBAMIC ACID PHENYL ESTERS".

Applicant :—SCHERING AKTIENGESELLSCHAFT, a body corporate organised according to the laws of the Federal Republic of Germany, of Berlin and Bergkamen, Federal Republic of Germany.

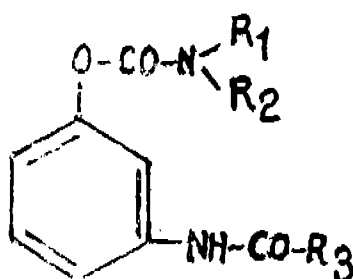
Inventors :—GERHARD BOROSCHEWSKI, LUDWIG NUSSLEIN & FRIEDRICH ARNDT.

Application for patent no. 643/Del/79 filed on 14th September, 79.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-5.

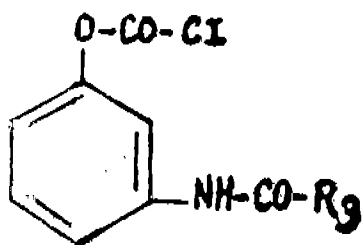
(3 claims)

A process for the manufacture of a carbamic acid phenyl ester of the general formula I.

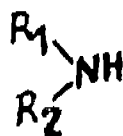


in which

- R₁ represents a C₁-C₄-alkyl, C₂-C₄-alkenyl or C₃-C₄-alkynyl group.
- R₂ represents an unsubstituted phenyl group or a phenyl group substituted by one or two substituents selected from halogen atoms, methyl groups and methoxy groups, and
- R₃ represents a C₁-C₈-alkyl, C₂-C₈-alkenyl, cyclopropyl or trichloromethyl group wherein a chloroformic ester of the general formula IV.



in which R₃ has the meaning given above is reacted in the presence of a base such as herein described with a compound of the general formula V.



in which R₁ and R₂ have the meanings given above.
(Complete specification 29 pages Drawing 1 sheet).

CLASS : 32F₅(b) & 55D₁.

153182

Int. Class :—C07c 69/00, A01n 9/00.

"A PROCESS FOR THE MANUFACTURE OF HERBICIDALLY ACTIVE CARBAMIC ACID PHENYL ESTERS".

Applicant :—SCHERING AKTIENGESELLSCHAFT, a body corporate organised according to the laws of the Federal Republic of Germany, of Berlin and Bergkamen, Federal Republic of Germany.

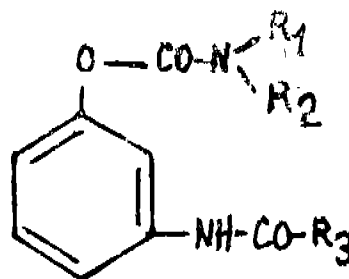
Inventors :—GERHARD BOROSCHEWSKI, FRIEDRICH ARNDT & LUDWIG NUSSLEIN.

Application for patent no. 644/Del/79 filed on 14th September, 79.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(3 claims)

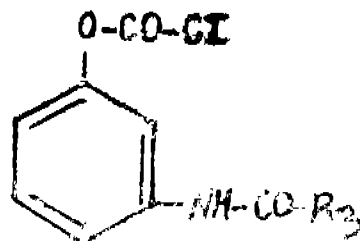
A process for the manufacture of a carbamic acid phenyl ester of the general formula I.



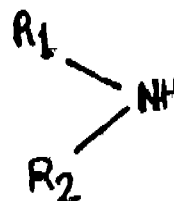
in which

- R₁ represents a C₁-C₂-alkoxy-C₁-C₂-alkyl, di-C₁-C₂-alkoxy-C₁-C₂-alkyl, cyano-C₁-C₂-alkyl, halogeno-C₁-C₂-alkyl, hydroxy-C₁-C₂-alkyl, phenyl-C₁-C₂-alkyl, 1, 3-dioxolan-2-yl-methyl-, 2-methyl-, 3-dioxolan-4-yl-methyl-, 4-methyl-, 3-dioxolan-2-ylmethyl-, 2, 2-dimethyl-, 3-dioxolan-4-yl-methyl or aminocarbonyl-C₁-C₂-alkyl group
- N₂ represents an unsubstituted phenyl group or a phenyl group substituted by one or two substituents selected from halogen atoms, methyl groups and methoxy groups, and
- R₃ represents a C₁-C₈-alkyl, C₂-C₈-alkenyl, cyclopropyl or trichloromethyl group

wherein a chloroformic acid ester of the general formula IV.



reacted in the presence of a base with a compound of the general formula V



in which R₁ and R₂ have the meanings given above.

(Complete specification 30 pages Drawing 1 sheet).

CLASS : 32F₂(v) & 55F.

153183.

Int. Class : A61k 27/00 & C07d 49/08.

"IMPROVEMENT IN OR RELATING TO THE MANUFACTURE OF OXYPHEN-BUTAZONE (1-(p-hydroxyphenyl)-2-phenyl-4-butyl-3, 5-dioxypyrazolidine) FROM p-BENZYL OXYAZOBENZENE AND n BUTYL MALONIC ESTER".

Applicant : PYARE PARIMOO, OF 42-BALGARDEN, SRINAGAR (KASHMIR), INDIA, an Indian National.

Inventor : PYARE PARIMOO.

Application for Patent No. 652/Del/79 filed on 17th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(9 claims)

A process for the manufacture of oxyphenbutazone which consists in reacting p-benzoyloxyhydrazobenzene and n-butyl malonic ester in presence of sodium ethoxide solution at a temperature not exceeding 145°C with stirring and distillation of ethanol to form 1-(p-benzoyloxyphenyl)-2-phenyl-4-butyl-3, 5-dioxypyrazolidine as an intermediate product which is debenzylated by methods known per se to oxyphenbutazone.

(Complete Specification 12 pages).

CLASS : 80 H.

153184.

Int. Class : B01d, 21/01, 21/02.

"SEDIMENTATION TANK FOR SEPARATING SOLIDS FROM A LIQUID SUSPENSION"

Applicant : DORR OLIVER INCORPORATION, OF 77 Havemeyer Lane, Stamford, Connecticut, United States of America, a corporation organised under the laws of the State of Delaware, United States of America, Engineers.

Inventor : ELLIOT BRYANT FITCH.

Application for patent No. 657/Del/79 filed on 17th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(11 claims)

A sedimentation tank for separating solids from a liquid suspension including influent feed means, and a cylindrical feedwell for receiving influent feed from said influent feed means, said feedwell including upper and lower feed channels adapted to tangentially and simultaneously receive the influent feed in split counter-rotative streams and to discharge said streams within a common zone of shear within said feedwell, characterised by flocculant dispersing means located within said feedwell adjacent said upper and lower feed channels for introducing and mixing a preselected flocculant dosage with said reemerging streams within said zone of shear.

(Complete specification 11 pages. Drawing 2 sheets).

CLASS : 64 B.

153185.

Int. Class : H01h 1/58.

"ELECTRICAL CONNECTOR ASSEMBLY"

Applicant : THE BENDIX CORPORATION, a corporation organised and existing under the laws of the State of Delaware and having an office at Executive Offices, Bendix Center, Southfield, Michigan 48076, United States of America.

Inventor : NORMAN CHARLES BOURDON.

Application for patent No. 675/DEL/79 filed on 24th September, 1979.

Convention date 15 January, 1979/140/79 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(7 claims)

Electrical connector assembly, characterized in that it comprises : a housing having a mating face and an opposite face and provided with at least one passage extending from said mating face to said opposite face, a contact mounted in said or each said passage, said contact having a mating portion extending in the direction of said mating face and an opposite portion comprised of a plurality of axially aligned wires having each tapered end portion and extending in direction of said opposite face, said mating and opposite portions being electrically connected, an insulated wire having a central electrical conductor and a layer of insulation material around said conductor, said insulated wire being secured with respect to said housing, at least a portion of said insulated wire extending transversely with respect to said axially aligned wires, and said transversely extending portion being impaled upon said tapered end portion of the axially aligned wires to provide electrical contact between said central conductor of the insulated wire and said mating portion.

(Complete specification 10 pages. Drawing 3 sheets).

CLASS : 195 C.

153186.

Int. Class : F 16k 3/00.

"BUTTERFLY VALVE"

Applicant : GENERAL SIGNAL CORPORATION, a corporation of the State of New York, doing business at High Ridge Park, Stamford, Connecticut 06904, United States of America.

Inventor : PAUL JAMES BARTHELEMY, DALE ROBERT CLAUSING, ALBERT WARNER LIBKE AND DONALD ROSS TROTT.

Application for Patent No. 690/DEL/79 filed on 26th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(8 claims)

A butterfly valve comprising a housing in which is received a disc mounted on one end of a shaft for rotation between open and closed positions, a valve seat having an outer wall and supported by a ring bounding the inner periphery of the housing, said ring permanently fixed to the outer wall of the valve seat, said valve seat being formed of a resiliently deformable material and provided with an aperture therein, said valve seat bounding said disc to sealingly engage therewith in the closed position, said ring being made of a material that is much stronger and more rigid than said valve seat, the ring having a cylindrical lip defining an aperture aligned with the aperture in said valve seat, cylindrical collar surrounding said shaft and positioned within said cylindrical lip whereby said lip supports said collar and said collar provides a bearing surface for said shaft characterised in that the housing is formed of first and second sections attached to one another and each bounding a respective portion of the periphery of the ring each said section including projections between which the ring is received so as to locate the ring and the valve seat within the housing.

(Complete specification 14 pages. Drawing 4 sheets).

CLASS : 172 C.

153181.

Int. Class : D 01g 15/00.

"CARDING PLATE"

Applicant : HOLLINGSWORTH GmbH., a German Company of 7265 Neubulach 5, West Germany.

Inventor : WALTER LOFFLER.

Application for patent No. 695/DEL/79 filed on 28th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(13 claims)

A carding plate comprising a support provided with a concave supporting surface forming part of a hollow cylinder and sawtooth wire sections supported adjacent one another on this supporting surface as the card clothing, characterised in that the sawtooth wire sections are attached to a thin holding plate and in that the carding element formed by the sawtooth wire sections and the holding plate is secured to the supporting surface of the base plate.

(Complete specification 10 pages.-Drawing one sheet).

CLASS : 172 C₁. 153188.

Int. Class : D01g 15/00.

"A DIRT SEPARATOR FOR CARDS HAVING A CYLINDER AND FIXEDLY MOUNTED CARDING SEGMENTS CO-OPERATING THEREWITH"

Applicant : HOLLINGSWORTH GmbH, a German company, of 7265 Neubulach 5, West Germany.

Inventor : WALTER LOFFLER.

Application for patent No. 696/DEL/79 filed on 28th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(8 claims)

A dirt separator for cards having a cylinder and fixedly mounted carding segments co-operating therewith, comprising a knife blade of which the blade edge is arranged against the direction of rotation of the cylinder at a narrow interval from its clothing adjoining a carding segment, characterised in that the knife blade is provided with an adjustment for adjusting the interval between the knife blade and the clothing of the cylinder, and in that the knife blade is preceded in the direction of rotation by a collecting rail which has a substantially flat base surface running parallel to the surface of the cylinder.

(Complete specification 8 pages. Drawing 2 sheets).

CLASS : 154 C, D. 153189.

Int. Class : B41f 17/00 & B41k 3/00.

"APPARATUS FOR PRINTING INDICIA ON OBJECTS"

Applicant : SUNKIST GROWERS INC., a corporation organized and existing under the laws of the State of California, United States of America, of 14130 Riverside Drive, Sherman Oaks, State of California, United States of America.

Inventors : NED CUNNINGHAM CARTER AND JERRY WRIGHT CRAMER.

Application for patent No. 698/DEL/79 filed on 3rd October, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(22 claims)

An apparatus for printing indicia on objects successively transported past a printing station having a die roll which is synchronously rotatable to successively move printing dies arranged upon its periphery from an inking roll into printing engagement with said objects, including a conveyor for transporting said objects;

a plurality of inking rolls supported on a turret and adapted to be charged respectively with inks having different printing characteristics;

means for selectively moving one of said inking rolls into operative engagement with the die roll; and

means for driving the selected inking roll in synchronized relation to the die roll.

(Complete specification 24 pages. Drawing four sheets).

CLASS : 140 B₁ & 32B.

153190.

Int. Class : C07c 7/00.

"AN IMPROVED PROCESS FOR SWEETENING OF SOUR PETROLEUM DISTILLATES"

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act, (XXI of 1860).

Inventors : BRIJ BAHADUR AGARWAL, JOGINDER SHAH BAHL, SILAS FRANKLIN FISH, SOM NATH PURI AND INDER BHUSHAN GULATI.

Application for patent No. 700/DEL/79 filed on 3rd October, 1979.

Complete specification left on 10th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

(9 claims)

An improved process for sweetening of sour petroleum distillates comprising treating the same with oxygen containing gas in the presence a phthalocyanine catalyst and promoters therefor in an alkaline medium to oxidise mercaptosulphur compounds contained therein characterised in that promoter used is mercuric chloride.

(Provisional specification 8 pages).

(Complete specification 9 pages).

OPPOSITION PROCEEDINGS

The opposition entered by Indian Explosives Limited to the grant of a patent on application No. 147434 made by I.D.L. Chemicals Limited as notified in the Gazette of India, Part III, Section 2 dated 13th September, 1980 has been allowed and the grant of a patent on the application has been refused.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta.

(1)

143872 143873 143874 143875 143878 143882 143884 143888
143892 143894 143896 143899 143900 143901

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144696 144697 144699 144701 144705 144707

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145309 145312 145330 145333

PATENTS SEALED

149544 150570 151162 151409 151414 151476 151527 151671
151694 151698 151700 151709 151720 151733 151771 151773
151805 151845 151888 151903 151941 151942 151943 151944
151983 151992 151993 151995

RENEWAL FEES PAID

121347 121348 121349 121423 121928 122981 126520 126812
130829 131290 131429 131458 131502 131565 131885 135741
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146713 146714 147670 148420 148547 149113 149279 149335
149398 149556 149701 149712 149755 149802 149940 150040
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151461 151515 151520 151532 151542 151584 151676

CESSATION OF PATENTS

117931 117945 117958 117972 117977 117996 118001 118002
118005 118015 118020 118023 118025 118028 118033 118034
118035 118036 118057 118063 118067 118071 126488 132192
135398 135399 150247

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 140936 dated the 2nd August, 1973 made by Jerry Annaldo Steding on the 2nd August, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 27th Dec., 1983 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 142565 dated the 21st October, 1975 made by Josef Krings on the 1st August, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 24th December, 1983 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149072 granted to Bijon Kumar Biswas for an invention relating to "dual filamented electric lamp".

The patent ceased on the 3rd March, 1983 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 31st March, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta 700017 on or before the 9th August, 1984 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application for restoration of Patent No. 150160 dated the 19th July, 1978 made by Sushil Chandra Srivastava on the 8th August, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 24th December, 1983 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 153873. Speed & Power Instruments, 5644-Outab Road, New Delhi-110055, an Indian Partnership concern. "Baby Cloth Bag" (Double). 15th December, 1983.

Class. 1. No. 153626. Sturm, Ruger & Company, INC., a Company organized and existing under the laws of the State of Delaware, United States of America, manufacturers, of Lacey Place, Southport, Connecticut 06490, United States of America. "Receiver for a Rifle with Indentation and Depressible Bolt Stop Therein". 3rd November, 1983.

Class. 1. No. 153941. Trading as Benlaks (India) House 71, G. B. Road, Delhi-110006. "Plummer Blocks" (Brackets). 3rd January, 1984.

Class. 1. No. 153872. Speed & Power Instruments, 5644-Outab Road, New Delhi-110055 an Indian Partnership Concern. "Baby Sofa Set". 15th December, 1983.

Class. 1. No. 153871. Speed & Power Instruments, 5644-Outab Road, New Delhi-110055, an Indian Partnership concern. "Baby Rocking Horse". 15th December, 1983.

Class. 1. No. 154105. Zahoor Ahmed Proprietor of Prince Industries, 1256-Mahar Sarai, Balimaran, Delhi-110006, India. An Indian National. "TOY". 29th February, 1984.

Class. 1. No. 154065. DLF Universal Ltd., of 21-22 Narindra Place, Parliament Street, New Delhi-110001, India, an Indian Company. "A Lamination for a Stator of a Motor". 21st February, 1984

Class. 1. No. 153676. Mr. Pelapoor Mupral Srinivasan Varadan Indian National of Plot No. A-483, Road No. 24, Wagle Estate, Thana-400 604 State of Maharashtra, India. "Shaft Bearing". 16th November, 1983.

Class. 1. No. 154261. Niky Tasha (India) Private Limited, Mahajan House, E 1 and 2, N D S E, Part II, New Delhi-110049, a company incorporated under the Indian Companies Act, "Grillette". 5th April, 1984.

153753 to 153786

Class. 3. No. 153753 to 153786. M.Y. & Sons, Kalalan Street, Najibabad, U.P., an Indian Partnership Concern. "Wooden door handle". December 5, 1983.

153710 to 153729

Class. 3. No. 153710 to 153729. M.Y. & Sons, Kalalan Street, Najibabad, U.P., an Indian Partnership concern. "Wooden door handle". 30th November, 1983.

Class. 3. No. 153911. Gurmat Jit Singh, Smt. Surjit Kaur and Smt. Arvind Kaur Partners of Concorde Plast, 103, Daya Nand Nagar, Lawrence Road, Amritsar-143 001, who are Indian Nationals of the above address. "The Angular Kitchen Garden Continuous Hand Sprayer". 27th December, 1983.

Class. 3. No. 153912. Concorde Plast, 103, Daya Nand Nagar, Lawrence Road, Amritsar-143001, who are Indian Nationals of the above address. "The Straight Kitchen Garden Continuous Hand Sprayer". 27th December, 1983.

Class. 3. No. 154084. Naturewatch Limited, a British Company, of 5 Rodney Road, Cheltenham, Gloucestershire, GL50 1 HX, England. A "Boot Remover". 24th February, 1984.

Class. 3. No. 154122. Dunlop India Limited, of Dunlop House, 57-B, Mirza Ghalib Street, Calcutta-700 016, West Bengal, India, an Indian Company. "Vehicle Tyre". 6th March, 1984.

Class. 3. No. 154070. Kemco Chemicals, of 48/B, Muktaran Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership firm. "Container". 22nd February, 1984.

Class. 3. No. 154071. Kemco Chemicals, of 48/B, Muktaran Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership firm. "Container". 22nd February, 1984.

Class. 3. No. 154072. Kemco Chemicals, of 48/B, Muktaran Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership firm. "Container". 22nd February, 1984.

Class. 3. No. 154073. Kemco Chemicals, of 48/B, Muktaran Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership firm. "Container". 22nd February, 1984.

Class. 3. No. 154074. Kemco Chemicals, of 48/B, Muktaran Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership firm. "Container". 22nd February, 1984.

Class. 3. No. 153610. Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18(WB), Maharashtra State, India, an Indian Company. "Battery Eliminator". 29th October, 1983.

Class. 3. No. 153845. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "Toy Figure". 15th December, 1983.

Class. 3. No. 153843. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "Toy airplane". 15th December, 1983.

Class. 3. No. 153687. Raj Mahendra Jain, an Indian Karta of HUF, 16B/F2, Dilshad Garden Shahdara, Delhi-110032. "Sofa Cum Double Bed with Storage Space". 18th November, 1983.

Class. 3. No. 153686. Raj Mahendra Jain, an Indian, Karta of HUF, 16B/F2, Dilshad Garden Shahdara, Delhi-110032. "Sofa-cum-Double Bed". 18th November, 1983.

Class. 3. No. 154133. Wallfrin International, 1st floor, 13/14, Bussa Industrial Estate, Near Century Bazar, Bombay-400018, Maharashtra, an Indian Partnership firm. "Pencil Box". 9th March, 1984.

Class. 4. No. 154101. Vivelon Cosmetics, Ajay Service Industrial Estate, Unit 421, 4th Floor, Anjir Wadi, Mazgaon, Bombay-400 010, State of Maharashtra, India. "A Glass Bottle". 28th February, 1984.

Class. 4. No. 153955. The Mathalakshmi Glass Works Private Limited, a private limited company incorporated under the Indian Companies Act, Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra, India. "Bottle". 16th January, 1984.

Class. 4. No. 153695. Pure Drinks (New Delhi) Limited, An Indian Company, Sardar Mohan Singh Building, Connaught Lane, New Delhi-110 001. An Indian Company. "Bottle". 21st November, 1983.

Class. 4. No. 153696. Pure Drinks (New Delhi) Limited, An Indian Company, Sardar Mohan Singh Building, Connaught Lane, New Delhi-110001, India. An Indian Company. "Bottle". 21st November, 1983.

Class. 4. No. 154059. Suman Dileep Shah, of Bonal International, Dharmendra Apartments, Lakdi Pul, Dandia Bazar, Baroda-390001, Gujarat, India, an Indian national. "Bottle". 18th February, 1984.

Class. 4. No. 154099. Vivelon Cosmetics, Ajay Service Industrial Estate, Unit 421, 4th Floor, Anjir Wadi, Mazgaon, Bombay-400 010, State of Maharashtra, India. "A Glass Bottle". 28th February, 1984.

Class. 4. No. 154238. Gulab Products, an Indian Co., "Bottle". 29th March, 1984.

Class. 10. No. 154053. Bharat Industries, 192, Dehradun Road, Rishikesh, an Indian Partnership concern. "Foot Wear". 16th February, 1984.

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